

**Commonwealth of Kentucky  
Environmental and Public Protection Cabinet  
Department for Environmental Protection  
Division for Air Quality  
803 Schenkel Lane  
Frankfort, Kentucky 40601  
(502) 573-3382**

**STATE ORIGIN  
AIR QUALITY PERMIT**

**Permittee Name:** Harsco Corporation  
**Mailing Address:** P.O. Box 8888, Camp Hill, Pennsylvania 17001-8888

**is authorized to construct and operate a roofing granule processing plant**

**Source Name:** Reed Minerals Plant 12/25  
**Mailing Address:** Same as above  
**Source Location:** Route 176, Drakeboro, Kentucky

**KYEIS ID #:** 21-177-00065  
**AI #:** 3237  
**SIC Code:** 3295

**Region Office:** Owensboro Regional Office  
3032 Alvey Park Drive W., Suite 700  
Owensboro, KY 42303-2191

**County:** Muhlenburg

**Permit Number:** S-05-008  
**Log Number:** 56627  
**Activity ID:** APE20040002  
**Permit Type:** Construction/Operating

**Issuance Date:** February 16, 2005  
**Expiration Date:** February 16, 2015

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**John S. Lyons, Director  
Division for Air Quality**

## **SECTION A - PERMIT AUTHORIZATION**

Pursuant to a duly submitted application which was determined to be complete on October 4, 2004, the Kentucky Division for Air Quality hereby authorizes the construction and operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify an affected facility without first having submitted a complete application and receiving a permit for the planned activity from the Division, except as provided in this permit or in Regulation 401 KAR 52:040, State-origin permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining other permits, licenses, or approvals that may be required by the Cabinet or other federal, state, or local agency.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS****EXISTING PLANT #12**

01	(M05)	Receiving Hopper (Slag)
02	(M01)	Conveyor and Transfer Points (Slag)
14	(M02)	Storage Silo (Finished Product)
	(M02)	Storage Silo (Finished Product)
	(M02)	Storage Silo (Finished Product)
	(M02)	Storage Silo (Finished Product)
	(M02)	Storage Silo (Finished Product)
	(M02)	Storage Silo (Finished Product)
	(M02)	Storage Silo (Finished Product)
	(M02)	Storage Silo (Finished Product)
	(M02)	Storage Silo (Finished Product)
	(M02)	Storage Silo (Finished Product)
	(M02)	Storage Silo (Finished Product)
	(M02)	Storage Silo (Finished Product)
16	(M03)	Storage Silo (Transload)
	(M03)	Storage Silo (Transload)
	(M03)	Storage Silo (Transload)
	(M03)	Storage Silo (Transload)

**EXISTING PLANT #25**

21	(21)	Receiving Hopper
	(-)	Chute and Transfer Points (8"x12"x20' From Bucket Elevator # 26 To Primary Crusher # 27)

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- 21      (-)      Chute and Transfer Points (8"x12"x20' From Bucket Elevator # 26 To Primary Crusher # 27)
- (-)      Chute and Transfer Points (8"x12"x6' From Primary Crushers To Bucket Elevator # 28)
- (-)      Chute and Transfer Points (8"x12"x6' From Primary Crushers To Bucket Elevator # 28)
- (-)      Chute and Transfer Points (8"x8"x6' From Bucket Elevator # 28 To Primary Screens # 29)
- (-)      Chute and Transfer Points (8"x8"x6' From Bucket Elevator # 28 To Primary Screens # 29)
- (-)      Chute and Transfer Points (8"x6"x12' From Primary Screens # 29 To Bucket Elevator # 34)
- (-)      Chute and Transfer Points (8"x6"x12' From Primary Screens # 29 To Bucket Elevator # 34)
- (-)      Chute and Transfer Points (12"x6"x20' From Primary Screens # 29 To Oversize Tank)
- (-)      Chute and Transfer Points (12"x6"x20' From Primary Screens # 29 To Oversize Tank)
- (-)      Oversize Silo (Storage)
- (-)      Chute and Transfer Points (12"x6"x20' From Primary Screens # 29 To Secondary Crushers # 30)
- (-)      Chute and Transfer Points (12"x6"x20' From Primary Screens # 29 To Secondary Crushers # 30)
- (-)      Chute and Transfer Points (8"x6"x6' From Secondary Crushers # 30 To Bucket Elevator # 31)
- (-)      Chute and Transfer Points (8"x6"x6' From Secondary Crushers # 30 To Bucket Elevator # 31)
- (-)      Chute and Transfer Points (8"x8"x6' From Bucket Elevator # 31 To Secondary Screens # 32)

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- 21      (-)      Chute and Transfer Points (8"x8"x6' From Bucket Elevator # 31 To Secondary Screens # 32)
- (-)      Chute and Transfer Points (12"x6"x20' From Secondary Screens # 32 To Oversize Tank)
- (-)      Chute and Transfer Points (12"x6"x20' From Secondary Screens # 32 To Oversize Tank)
- (-)      Chute and Transfer Points (8"x8"x6' From Secondary Screens # 32 To Bucket Elevator # 34)
- (-)      Chute and Transfer Points (8"x8"x6' From Secondary Screens # 32 To Bucket Elevator # 34)
- (-)      Chute and Transfer Points (8"x8"x6' From Bucket Elevator # 34 To Tertiary Screens # 35)
- (-)      Chute and Transfer Points (8"x8"x6' From Bucket Elevator # 34 To Tertiary Screens # 35)
- (-)      Chute and Transfer Points (8"x6"x12' From Primary Screens # 29 To Bulk Storage Silos # 36 for 10, 14, and 20 Mesh Blend Silos)
- (-)      Chute and Transfer Points (8"x6"x12' From Primary Screens # 29 To Bulk Storage Silos # 36 for 10, 14, and 20 Mesh Blend Silos)
- (-)      Chute and Transfer Points (8"x6"x12' From Secondary Screens # 32 To Bulk Storage Silos # 36 for 10, 14, and 20 Mesh Blend Silos)
- (-)      Chute and Transfer Points (8"x6"x12' From Secondary Screens # 32 To Bulk Storage Silos # 36 for 10, 14, and 20 Mesh Blend Silos)
- (-)      Chute and Transfer Points (8"x6"x12' From Tertiary Screens To Bulk Storage Silos # 36 for 28, 35, +60, -60, and 20 Mesh Blend Silos)
- (-)      Chute and Transfer Points (8"x6"x12' From Tertiary Screens To Bulk Storage Silos # 36 for 28, 35, +60, -60, and 20 Mesh Blend Silos)
- (-)      Chute and Transfer Points (8"x6"x6' Loadout From Each Silo To Conveyors # 38 and # 40 Underneath Bulk Storage Silo)
- (-)      Chute and Transfer Points (8"x6"x6' Loadout From Each Silo To Conveyors # 38 and # 40 Underneath Bulk Storage Silo)

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- 21      (-)              Chute and Transfer Points (8"x6"x6' Loadout From Each Silo To Conveyors # 38 and # 40 Underneath Bulk Storage Silo)
- (-)              Chute and Transfer Points (8"x6"x6' Loadout From Each Silo To Conveyors # 38 and # 40 Underneath Bulk Storage Silo)
- (-)              Chute and Transfer Points (8"x6"x6' Loadout From Each Silo To Conveyors # 38 and # 40 Underneath Bulk Storage Silo)
- (-)              Chute and Transfer Points (8"x6"x6' Loadout From Each Silo To Conveyors # 38 and # 40 Underneath Bulk Storage Silo)
- (-)              Chute and Transfer Points (8"x6"x6' Loadout From Each Silo To Conveyors # 38 and # 40 Underneath Bulk Storage Silo)
- (-)              Chute and Transfer Points (8"x6"x6' Loadout From Each Silo To Conveyors # 38 and # 40 Underneath Bulk Storage Silo)
- (-)              Chute and Transfer Points (8"x6"x6' Loadout From Each Silo To Conveyors # 38 and # 40 Underneath Bulk Storage Silo)
- (-)              Chute and Transfer Points (8"x6"x6' Loadout From Each Silo To Conveyors # 38 and # 40 Underneath Bulk Storage Silo)
- (-)              Chute and Transfer Points (8"x6"x20' From Bucket Elevator # 42 To Loadout Silos # 43)
- (-)              Chute and Transfer Points (8"x6"x6' From Each Product Loadout Silo To Bagger Conveyor # 44)
- (-)              Chute and Transfer Points (8"x6"x6' From Each Product Loadout Silo To Bagger Conveyor # 44)
- (-)              Chute and Transfer Points (8"x6"x6' From Each Product Loadout Silo To Bagger Conveyor # 44)
- (-)              Chute and Transfer Points (8"x6"x6' From Each Product Loadout Silo To Bagger Conveyor # 44)
- (-)              Chute and Transfer Points (8"x6"x6' From Each Product Loadout Silo To Bagger Conveyor # 44)

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- 21      (-)              Chute and Transfer Points (8"x6"x6' From Each Product Loadout Silo To Bagger Conveyor # 44)
- (-)              Chute and Transfer Points (8"x6"x6' From Each Product Loadout Silo To Bagger Conveyor # 44)
- (-)              Chute and Transfer Points (8"x6"x6' From Each Product Loadout Silo To Bagger Conveyor # 44)
- (-)              Chute and Transfer Points (8"x6"x6' From Each Product Loadout Silo To Truck Loadout Conveyor # 45 and Railcar Loadout Conveyor # 54)
- (-)              Chute and Transfer Points (8"x6"x6' From Each Product Loadout Silo To Truck Loadout Conveyor # 45 and Railcar Loadout Conveyor # 54)
- (-)              Chute and Transfer Points (8"x6"x6' From Each Product Loadout Silo To Truck Loadout Conveyor # 45 and Railcar Loadout Conveyor # 54)
- (-)              Chute and Transfer Points (8"x6"x6' From Each Product Loadout Silo To Truck Loadout Conveyor # 45 and Railcar Loadout Conveyor # 54)
- (-)              Chute and Transfer Points (8"x6"x6' From Each Product Loadout Silo To Truck Loadout Conveyor # 45 and Railcar Loadout Conveyor # 54)
- (-)              Chute and Transfer Points (8"x6"x6' From Each Product Loadout Silo To Truck Loadout Conveyor # 45 and Railcar Loadout Conveyor # 54)
- (-)              Chute and Transfer Points (8"x6"x6' From Each Product Loadout Silo To Truck Loadout Conveyor # 45 and Railcar Loadout Conveyor # 54)
- 22      (22)              Conveyor and Transfer Points (24"x50' From Receiving Hopper To Hance 4'x8' Single Deck Scalping Screen # 23)
- (24)              Conveyor and Transfer Points (24"x16' From Scalping Screen # 23 To Fluidbed Dryer # 25)
- 23      (23)              Grizzly Screen (Hance 4'x8' Single Deck)  
(Maximum Rated Capacity- 90 tons/hour)
- 27      (-)              Haul Road and Yard Area (Unpaved)

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **Applicable Regulations:**

State Regulation 401 KAR 63:010, Fugitive emissions, applies to each of the affected facilities listed above.

#### **1. Operating Limitations:**

N/A

#### **2. Emission Limitations:**

The materials processed at each affected facility listed above shall be controlled with either wet suppression and/or enclosures so as to comply with the requirements specified in State Regulation 401 KAR 63:010, Fugitive emissions, Section 3. Standards for fugitive emissions.

### **Compliance Demonstration Method:**

See Section C, General Condition F.1.

#### **3. Testing Requirements:**

N/A

#### **4. Monitoring Requirements:**

See Section C, General Condition F.1.

#### **5. Recordkeeping Requirements:**

See Section C, General Conditions B.1., B.2., and F.1.

#### **6. Reporting Requirements:**

See Section C, General Conditions C.1, C.2, C.3., and F.2.



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****EXISTING PLANT #12**

- |    |       |  |
|----|-------|--|
| 04 | (M04) | Storage Silo (Raw Feed)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)   |
|    | (M04) | Storage Silo (Raw Feed)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)   |
|    | (M04) | Storage Silo (Raw Feed)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)   |
|    | (M04) | Storage Silo (Raw Feed)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)   |
| 05 | (M01) | Conveyor and Transfer Points (Slag)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)   |
| 06 | (M01) | Conveyor and Transfer Points (Preheated Slag)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)   |
|    | (M05) | Conveyor and Transfer Points (Preheated Slag)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)   |
| 07 | (P02) | Blender<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)   |
| 08 | (P03) | Dryer (Primary Fuel: Natural Gas, Secondary Fuel: Fuel Oil)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)<br>(Date of Construction: April 14, 1988) |
| 09 | (P04) | Kiln (Primary Fuel: Natural Gas, Secondary Fuel: Fuel Oil)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)<br>(Date of Construction: April 14, 1988)  |
| 10 | (M01) | Conveyor and Transfer Points (Preheated Slag)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)   |

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- |    |       |  |
|----|-------|--|
| 10 | (P05) | Conveyor and Transfer Points (Preheated Slag)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency) |
|    | (M01) | Conveyor and Transfer Points (Preheated Slag)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency) |
|    | (M05) | Conveyor and Transfer Points (Preheated Slag)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency) |
|    | (M05) | Conveyor and Transfer Points (Preheated Slag)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency) |
|    | (M05) | Conveyor and Transfer Points (Preheated Slag)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency) |
| 11 | (P06) | Mixer (Final Product)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)                         |
| 12 | (M01) | Conveyor and Transfer Points (Final Product)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)  |
| 13 | (P07) | Storage Silo (Mixing Tank)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)                    |
|    | (P07) | Storage Silo (Mixing Tank)<br>(Maximum Rated Capacity- 40 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)                    |
| 17 | (-)   | Loadout (Truck or Railcar)<br>(Maximum Rated Capacity- 150 tons/hour)<br>(Control: Wet Scrubber – High Efficiency)                   |

**EXISTING PLANT #25**

- |    |      |   |
|----|------|---|
| 25 | (26) | Bucket Elevator (30' From Fluidbed Dryer To Primary Crushers # 27)<br>(Maximum Rated Capacity- 90 tons/hour)<br>(Control: Baghouse) |
|----|------|---|

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- 25      (27)      Primary Crusher (RMD 4 ½' Vertical Shaft)  
(Maximum Rated Capacity- 90 tons/hour)  
(Control: Baghouse)
- (27)      Primary Crusher (RMD 4 ½' Vertical Shaft)  
(Maximum Rated Capacity- 90 tons/hour)  
(Control: Baghouse)
- (28)      Bucket Elevator (30' From Primary Crushers # 27 To Primary Screens # 29)  
(Maximum Rated Capacity- 90 tons/hour)  
(Control: Baghouse)
- (29)      Primary Screen (Rotex 54A 40"x8' Double Deck)  
(Maximum Rated Capacity- 90 tons/hour)  
(Control: Baghouse)
- (29)      Primary Screen (Rotex 54A 40"x8' Double Deck)  
(Maximum Rated Capacity- 90 tons/hour)  
(Control: Baghouse)
- (30)      Secondary Crusher (RMD 4 ½' Vertical Shaft)  
(Maximum Rated Capacity- 120 tons/hour)  
(Control: Baghouse)
- (30)      Secondary Crusher (RMD 4 ½' Vertical Shaft)  
(Maximum Rated Capacity- 120 tons/hour)  
(Control: Baghouse)
- (31)      Bucket Elevator (30' From Secondary Crushers # 30 To Secondary Screens # 32)  
(Maximum Rated Capacity- 120 tons/hour)  
(Control: Baghouse)
- (32)      Secondary Screen (Rotex 54A 40"x8' Double Deck)  
(Maximum Rated Capacity- 120 tons/hour)  
(Control: Baghouse)
- (32)      Secondary Screen (Rotex 54A 40"x8' Double Deck)  
(Maximum Rated Capacity- 120 tons/hour)  
(Control: Baghouse)
- (34)      Bucket Elevator (30' From Secondary Screens # 32 To Tertiary Screens # 35)  
(Maximum Rated Capacity- 40 tons/hour)  
(Control: Baghouse)

## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

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**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- 25      (36)      **Bulk Blend Silo (800 Ton Capacity)**  
**(Maximum Rated Capacity- 90 tons/hour)**  
**(Control: Baghouse)**
- (36)      **Bulk Blend Silo (800 Ton Capacity)**  
**(Maximum Rated Capacity- 90 tons/hour)**  
**(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (10 Mesh To Plant # 12)**  
**(Maximum Rated Capacity- 19 tons/hour)**  
**(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (14 Mesh To Plant # 12)**  
**(Maximum Rated Capacity- 21 tons/hour)**  
**(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (14 Mesh To Plant # 12)**  
**(Maximum Rated Capacity- 21 tons/hour)**  
**(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (14 Mesh To Plant # 12)**  
**(Maximum Rated Capacity- 21 tons/hour)**  
**(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (20 Mesh To Plant # 12)**  
**(Maximum Rated Capacity- 20 tons/hour)**  
**(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (20 Mesh To Plant # 12)**  
**(Maximum Rated Capacity- 20 tons/hour)**  
**(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (28 Mesh To Plant # 12)**  
**(Maximum Rated Capacity- 6 tons/hour)**  
**(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (28 Mesh To Plant # 12)**  
**(Maximum Rated Capacity- 6 tons/hour)**  
**(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (35 Mesh To Plant # 12)**  
**(Maximum Rated Capacity- 6 tons/hour)**  
**(Control: Baghouse)**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- 25      (-)      **Bulk Blend Loadout Silo (+60 Mesh To Plant # 12)  
(Maximum Rated Capacity- 8 tons/hour)  
(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (-60 Mesh To Plant # 12)  
(Maximum Rated Capacity- 10 tons/hour)  
(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (10 Mesh To Product Loadout Silos)  
(Maximum Rated Capacity- 19 tons/hour)  
(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (14 Mesh To Product Loadout Silos)  
(Maximum Rated Capacity- 21 tons/hour)  
(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (14 Mesh To Product Loadout Silos)  
(Maximum Rated Capacity- 21 tons/hour)  
(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (14 Mesh To Product Loadout Silos)  
(Maximum Rated Capacity- 21 tons/hour)  
(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (20 Mesh To Product Loadout Silos)  
(Maximum Rated Capacity- 20 tons/hour)  
(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (20 Mesh To Product Loadout Silos)  
(Maximum Rated Capacity- 20 tons/hour)  
(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (28 Mesh To Product Loadout Silos)  
(Maximum Rated Capacity- 6 tons/hour)  
(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (28 Mesh To Product Loadout Silos)  
(Maximum Rated Capacity- 6 tons/hour)  
(Control: Baghouse)**
- (-)      **Bulk Blend Loadout Silo (35 Mesh To Product Loadout Silos)  
(Maximum Rated Capacity- 6 tons/hour)  
(Control: Baghouse)**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- 25      (-)            Bulk Blend Loadout Silo (+60 Mesh To Product Loadout Silos)  
(Maximum Rated Capacity- 8 tons/hour)  
(Control: Baghouse)
- (-)            Bulk Blend Loadout Silo (-60 Mesh To Product Loadout Silos)  
(Maximum Rated Capacity- 10 tons/hour)  
(Control: Baghouse)
- (37)            Scalping Screen (Hance 2'x6' Single Deck)  
(Maximum Rated Capacity- 50 tons/hour)  
(Control: Baghouse)
- (37)            Scalping Screen (Hance 2'x6' Single Deck)  
(Maximum Rated Capacity- 50 tons/hour)  
(Control: Baghouse)
- (37)            Scalping Screen (Hance 2'x6' Single Deck)  
(Maximum Rated Capacity- 50 tons/hour)  
(Control: Baghouse)
- (37)            Scalping Screen (Hance 2'x6' Single Deck)  
(Maximum Rated Capacity- 50 tons/hour)  
(Control: Baghouse)
- (38)            Conveyor and Transfer Points (24"x50' From Bulk Blend Silo Loadout  
To Conveyor # 39)  
(Maximum Rated Capacity- 50 tons/hour)  
(Control: Baghouse)
- (39)            Conveyor and Transfer Points (24"x70' From Conveyor # 38 To Existing  
Plant # 12 96' Bucket Elevator)  
(Maximum Rated Capacity- 50 tons/hour)  
(Control: Baghouse)
- (40)            Conveyor and Transfer Points (24"x50' From Bulk Blend Silo Loadout  
To Conveyor # 41)  
(Maximum Rated Capacity- 50 tons/hour)  
(Control: Baghouse)
- (41)            Conveyor and Transfer Points (24"x25' From Conveyor # 40 To 3'x6'  
Scalping Screen)  
(Maximum Rated Capacity- 50 tons/hour)  
(Control: Baghouse)

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- 25      (42)      **Bucket Elevator (30' From 3'x6' Scalping Screen To Product Loadout Silos # 43)**  
**(Maximum Rated Capacity- 50 tons/hour)**  
**(Control: Baghouse)**
- 26      (43)      **Product Loadout Silo (640 Ton)**  
**(Maximum Rated Capacity- 50 tons/hour)**  
**(Control: Baghouse)**
- (43)      **Product Loadout Silo (640 Ton)**  
**(Maximum Rated Capacity- 50 tons/hour)**  
**(Control: Baghouse)**
- (43)      **Product Loadout Silo (640 Ton)**  
**(Maximum Rated Capacity- 50 tons/hour)**  
**(Control: Baghouse)**
- (43)      **Product Loadout Silo (640 Ton)**  
**(Maximum Rated Capacity- 50 tons/hour)**  
**(Control: Baghouse)**
- (43)      **Product Loadout Silo (640 Ton)**  
**(Maximum Rated Capacity- 50 tons/hour)**  
**(Control: Baghouse)**
- (43)      **Product Loadout Silo (640 Ton)**  
**(Maximum Rated Capacity- 50 tons/hour)**  
**(Control: Baghouse)**
- (43)      **Product Loadout Silo (640 Ton)**  
**(Maximum Rated Capacity- 50 tons/hour)**  
**(Control: Baghouse)**
- (43)      **Product Loadout Silo (640 Ton)**  
**(Maximum Rated Capacity- 50 tons/hour)**  
**(Control: Baghouse)**
- (43)      **Product Loadout Silo (640 Ton)**  
**(Maximum Rated Capacity- 50 tons/hour)**  
**(Control: Baghouse)**
- (-)      **1040 Product Loadout (To Bagger)**  
**(Maximum Rated Capacity- 3 tons/hour)**  
**(Control: Baghouse)**
- (-)      **1240 Product Loadout (To Bagger)**  
**(Maximum Rated Capacity- 7 tons/hour)**  
**(Control: Baghouse)**



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- 26      (-)            **2040 Product Loadout (To Bagger)**  
                         **(Maximum Rated Capacity- 9 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **3060 Product Loadout (To Bagger)**  
                         **(Maximum Rated Capacity- 2 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **4261 Product Loadout (To Bagger)**  
                         **(Maximum Rated Capacity- 10 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **M40 Product Loadout (To Bagger)**  
                         **(Maximum Rated Capacity- 5 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **R6-11 Product Loadout (To Bagger)**  
                         **(Maximum Rated Capacity- 14 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **R6-11 Product Loadout (To Bagger)**  
                         **(Maximum Rated Capacity- 14 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **1040 Product Loadout (To Truck Loadout)**  
                         **(Maximum Rated Capacity- 3 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **1240 Product Loadout (To Truck Loadout)**  
                         **(Maximum Rated Capacity- 7 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **2040 Product Loadout (To Truck Loadout)**  
                         **(Maximum Rated Capacity- 9 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **3060 Product Loadout (To Truck Loadout)**  
                         **(Maximum Rated Capacity- 2 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **4261 Product Loadout (To Truck Loadout)**  
                         **(Maximum Rated Capacity- 10 tons/hour)**  
                         **(Control: Baghouse)**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- 26      (-)            **M40 Product Loadout (To Truck Loadout)**  
                         **(Maximum Rated Capacity- 5 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **R6-11 Product Loadout (To Truck Loadout)**  
                         **(Maximum Rated Capacity- 14 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **R6-11 Product Loadout (To Truck Loadout)**  
                         **(Maximum Rated Capacity- 14 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **1040 Product Loadout (To Railcar Loadout)**  
                         **(Maximum Rated Capacity- 3 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **1240 Product Loadout (To Railcar Loadout)**  
                         **(Maximum Rated Capacity- 7 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **2040 Product Loadout (To Railcar Loadout)**  
                         **(Maximum Rated Capacity- 9 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **3060 Product Loadout (To Truck Loadout)**  
                         **(Maximum Rated Capacity- 2 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **4261 Product Loadout (To Railcar Loadout)**  
                         **(Maximum Rated Capacity- 10 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **M40 Product Loadout (To Railcar Loadout)**  
                         **(Maximum Rated Capacity- 5 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **R6-11 Product Loadout (To Railcar Loadout)**  
                         **(Maximum Rated Capacity- 14 tons/hour)**  
                         **(Control: Baghouse)**
- (-)            **R6-11 Product Loadout (To Railcar Loadout)**  
                         **(Maximum Rated Capacity- 14 tons/hour)**  
                         **(Control: Baghouse)**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- 26      (44)      Conveyor and Transfer Points (24"x60' From Product Loadout Silo To Conveyor # 46)  
(Maximum Rated Capacity- 25 tons/hour)  
(Control: Baghouse)
- (46)      Conveyor and Transfer Points (24"x165' From Conveyor # 44 To Bagger Hopper)  
(Maximum Rated Capacity- 35 tons/hour)  
(Control: Baghouse)
- (47)      Receiving Hopper (Product Bagger)  
(Maximum Rated Capacity- 25 tons/hour)  
(Control: Baghouse)
- (48)      Bagger (Products – 1040, 1240, 2040, 3060, 4261, M40, and R6-11)  
(Maximum Rated Capacity- 25 tons/hour)  
(Control: Baghouse)
- (45)      Conveyor and Transfer Points (24"x60' From Product Loadout Silo To Conveyor # 53)  
(Maximum Rated Capacity- 150 tons/hour)  
(Control: Baghouse)
- (53)      Conveyor and Transfer Points (24"x82' From Conveyor # 45 To Truck Loadout)  
(Maximum Rated Capacity- 150 tons/hour)  
(Control: Baghouse)
- (54)      Conveyor and Transfer Points (24"x52' To Railcar Loadout)  
(Maximum Rated Capacity- 150 tons/hour)  
(Control: Baghouse)

**ADDITIONS TO THE PLANT**

- 28      (-)      Conveyor and Transfer Points (To Railcar Loadout)  
(Maximum Rated Capacity- 150 tons/hour)  
(Control: Baghouse)
- (-)      Railcar Loadout  
(Maximum Rated Capacity- 150 tons/hour)  
(Control: Baghouse)

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Applicable Regulations:**

State Regulation 401 KAR 59:010, New process operations, applies to each of the affected facilities listed above.

**1. Operating Limitations:**

N/A

**2. Emission Limitations:**

The Division for Air Quality has determined that this facility's potential to emit any air pollutant is less than 100 tons per year. Therefore, although the permit is conditioned to allow emissions in excess of 100 tons per year pursuant to federally enforceable Regulation KAR 59:010, New process operations, emissions equal to or in excess of 100 tons per year of any pollutant are not possible. Accordingly, this permit is being issued as a minor source state-origin permit.

a. Pursuant to Regulation 401 KAR 59:010, Section 3(2)(a):

1. Combined emissions of particulate matter from the Raw Feed Silo (Emission Point 04 (M04)) shall not exceed 31.23 lbs/hr.
2. Combined emissions of particulate matter from the Raw Feed Silo (Emission Point 04 (M04)) shall not exceed 31.23 lbs/hr.
3. Combined emissions of particulate matter from the Raw Feed Silo (Emission Point 04 (M04)) shall not exceed 31.23 lbs/hr.
4. Combined emissions of particulate matter from the Raw Feed Silo (Emission Point 04 (M04)) shall not exceed 31.23 lbs/hr.
5. Combined emissions of particulate matter from the Slag Conveyor and Transfer Points (Emission Point 05 (M01)) shall not exceed 31.23 lbs/hr.
6. Combined emissions of particulate matter from the Preheated Slag Conveyor and Transfer Points (Emission Point 06 (M01)) shall not exceed 31.23 lbs/hr.
7. Combined emissions of particulate matter from the Preheated Slag Conveyor and Transfer Points (Emission Point 06 (M05)) shall not exceed 31.23 lbs/hr.
8. Combined emissions of particulate matter from the Blender (Emission Point 07 (P02)) shall not exceed 31.23 lbs/hr.
9. Combined emissions of particulate matter from the Dryer (Emission Point 08 (P03)) shall not exceed 31.23 lbs/hr.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**2. Emission Limitations: (Continued)**

10. Combined emissions of particulate matter from the Kiln (Emission Point 09 (P04)) shall not exceed 31.23 lbs/hr.
11. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 10 (M01)) shall not exceed 31.23 lbs/hr.
12. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 10 (P05)) shall not exceed 31.23 lbs/hr.
13. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 10 (M01)) shall not exceed 31.23 lbs/hr.
14. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 10 (M05)) shall not exceed 31.23 lbs/hr.
15. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 10 (M05)) shall not exceed 31.23 lbs/hr.
16. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 10 (M05)) shall not exceed 31.23 lbs/hr.
17. Combined emissions of particulate matter from the Final Product Mixer (Emission Point 11 (P06)) shall not exceed 31.23 lbs/hr.
18. Combined emissions of particulate matter from the Final Product Conveyor and Transfer Points (Emission Point 12 (M01)) shall not exceed 31.23 lbs/hr.
19. Combined emissions of particulate matter from the Mixing Tank (Emission Point 13 (P07)) shall not exceed 31.23 lbs/hr.
20. Combined emissions of particulate matter from the Mixing Tank (Emission Point 13 (P07)) shall not exceed 31.23 lbs/hr.
21. Combined emissions of particulate matter from the Truck or Railcar Loadout (Emission Point 17 (-)) shall not exceed 38.59 lbs/hr.
22. Combined emissions of particulate matter from the Bucket Elevator (Emission Point 25 (26)) shall not exceed 35.56 lbs/hr.
23. Combined emissions of particulate matter from the Primary Crusher (Emission Point 25 (27)) shall not exceed 35.56 lbs/hr.
24. Combined emissions of particulate matter from the Primary Crusher (Emission Point 25 (27)) shall not exceed 35.56 lbs/hr.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**2. Emission Limitations: (Continued)**

25. Combined emissions of particulate matter from the Bucket Elevator (Emission Point 25 (28)) shall not exceed 35.56 lbs/hr.
26. Combined emissions of particulate matter from the Primary Screen (Emission Point 25 (29)) shall not exceed 41.88 lbs/hr.
27. Combined emissions of particulate matter from the Primary Screen (Emission Point 25 (29)) shall not exceed 41.88 lbs/hr.
28. Combined emissions of particulate matter from the Secondary Crusher (Emission Point 25 (30)) shall not exceed 37.24 lbs/hr.
29. Combined emissions of particulate matter from the Secondary Crusher (Emission Point 25 (30)) shall not exceed 37.24 lbs/hr.
30. Combined emissions of particulate matter from the Bucket Elevator (Emission Point 25 (31)) shall not exceed 37.24 lbs/hr.
31. Combined emissions of particulate matter from the Secondary Screen (Emission Point 25 (32)) shall not exceed 37.24 lbs/hr.
32. Combined emissions of particulate matter from the Secondary Screen (Emission Point 25 (32)) shall not exceed 37.24 lbs/hr.
33. Combined emissions of particulate matter from the Bucket Elevator (Emission Point 25 (34)) shall not exceed 31.23 lbs/hr.
34. Combined emissions of particulate matter from the Tertiary Screen (Emission Point 25 (35)) shall not exceed 31.23 lbs/hr.
35. Combined emissions of particulate matter from the Tertiary Screen (Emission Point 25 (35)) shall not exceed 31.23 lbs/hr.
36. Combined emissions of particulate matter from the Bulk Blend Silo (Emission Point 25 (36)) shall not exceed 35.56 lbs/hr.
37. Combined emissions of particulate matter from the Bulk Blend Silo (Emission Point 25 (36)) shall not exceed 35.56 lbs/hr.
38. Combined emissions of particulate matter from the Bulk Blend Silo (Emission Point 25 (36)) shall not exceed 35.56 lbs/hr.
39. Combined emissions of particulate matter from the Bulk Blend Silo (Emission Point 25 (36)) shall not exceed 35.56 lbs/hr.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**2. Emission Limitations: (Continued)**

40. Combined emissions of particulate matter from the Bulk Blend Silo (Emission Point 25 (36)) shall not exceed 35.56 lbs/hr.
41. Combined emissions of particulate matter from the Bulk Blend Silo (Emission Point 25 (36)) shall not exceed 35.56 lbs/hr.
42. Combined emissions of particulate matter from the Bulk Blend Silo (Emission Point 25 (36)) shall not exceed 35.56 lbs/hr.
43. Combined emissions of particulate matter from the Bulk Blend Silo (Emission Point 25 (36)) shall not exceed 35.56 lbs/hr.
44. Combined emissions of particulate matter from the Bulk Blend Silo (Emission Point 25 (36)) shall not exceed 35.56 lbs/hr.
45. Combined emissions of particulate matter from the Bulk Blend Silo (Emission Point 25 (36)) shall not exceed 35.56 lbs/hr.
46. Combined emissions of particulate matter from the Bulk Blend Silo (Emission Point 25 (36)) shall not exceed 35.56 lbs/hr.
47. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 22.28 lbs/hr.
48. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 23.71 lbs/hr.
49. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 23.71 lbs/hr.
50. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 23.71 lbs/hr.
51. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 23.00 lbs/hr.
52. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 23.00 lbs/hr.
53. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 10.90 lbs/hr.
54. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 10.90 lbs/hr.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**2. Emission Limitations: (Continued)**

55. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 10.90 lbs/hr.
56. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 13.03 lbs/hr.
57. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 14.97 lbs/hr.
58. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 22.28 lbs/hr.
59. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 23.71 lbs/hr.
60. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 23.71 lbs/hr.
61. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 23.71 lbs/hr.
62. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 23.00 lbs/hr.
63. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 23.00 lbs/hr.
64. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 10.90 lbs/hr.
65. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 10.90 lbs/hr.
66. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 10.90 lbs/hr.
67. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 13.03 lbs/hr.
68. Combined emissions of particulate matter from the Bulk Blend Loadout Silo (Emission Point 25 (-)) shall not exceed 14.97 lbs/hr.
69. Combined emissions of particulate matter from the Scalping Screen (Emission Point 25 (37)) shall not exceed 32.37 lbs/hr.



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**2. Emission Limitations: (Continued)**

70. Combined emissions of particulate matter from the Scalping Screen (Emission Point 25 (37)) shall not exceed 32.37 lbs/hr.
71. Combined emissions of particulate matter from the Scalping Screen (Emission Point 25 (37)) shall not exceed 32.37 lbs/hr.
72. Combined emissions of particulate matter from the Scalping Screen (Emission Point 25 (37)) shall not exceed 32.37 lbs/hr.
73. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 25 (38)) shall not exceed 32.37 lbs/hr.
74. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 25 (39)) shall not exceed 32.37 lbs/hr.
75. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 25 (40)) shall not exceed 32.37 lbs/hr.
76. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 25 (41)) shall not exceed 32.37 lbs/hr.
77. Combined emissions of particulate matter from the Bucket Elevator (Emission Point 25 (42)) shall not exceed 32.37 lbs/hr.
78. Combined emissions of particulate matter from the Product Loadout Silo (Emission Point 26 (43)) shall not exceed 32.37 lbs/hr.
79. Combined emissions of particulate matter from the Product Loadout Silo (Emission Point 26 (43)) shall not exceed 32.37 lbs/hr.
80. Combined emissions of particulate matter from the Product Loadout Silo (Emission Point 26 (43)) shall not exceed 32.37 lbs/hr.
81. Combined emissions of particulate matter from the Product Loadout Silo (Emission Point 26 (43)) shall not exceed 32.37 lbs/hr.
82. Combined emissions of particulate matter from the Product Loadout Silo (Emission Point 26 (43)) shall not exceed 32.37 lbs/hr.
83. Combined emissions of particulate matter from the Product Loadout Silo (Emission Point 26 (43)) shall not exceed 32.37 lbs/hr.
84. Combined emissions of particulate matter from the Product Loadout Silo (Emission Point 26 (43)) shall not exceed 32.37 lbs/hr.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**2. Emission Limitations: (Continued)**

85. Combined emissions of particulate matter from the Product Loadout Silo (Emission Point 26 (43)) shall not exceed 32.37 lbs/hr.
86. Combined emissions of particulate matter from the 1040 Product Loadout (To Bagger) (Emission Point 26 (-)) shall not exceed 7.09 lbs/hr.
87. Combined emissions of particulate matter from the 1240 Product Loadout (To Bagger) (Emission Point 26 (-)) shall not exceed 12.00 lbs/hr.
88. Combined emissions of particulate matter from the 2040 Product Loadout (To Bagger) (Emission Point 26 (-)) shall not exceed 14.02 lbs/hr.
89. Combined emissions of particulate matter from the 3060 Product Loadout (To Bagger) (Emission Point 26 (-)) shall not exceed 5.52 lbs/hr.
90. Combined emissions of particulate matter from the 4261 Product Loadout (To Bagger) (Emission Point 26 (-)) shall not exceed 14.97 lbs/hr.
91. Combined emissions of particulate matter from the M40 Product Loadout (To Bagger) (Emission Point 26 (-)) shall not exceed 9.74 lbs/hr.
92. Combined emissions of particulate matter from the R6-11 Product Loadout (To Bagger) (Emission Point 26 (-)) shall not exceed 18.44 lbs/hr.
93. Combined emissions of particulate matter from the R6-11 Product Loadout (To Bagger) (Emission Point 26 (-)) shall not exceed 18.44 lbs/hr.
94. Combined emissions of particulate matter from the 1040 Product Loadout (To Truck Loadout) (Emission Point 26 (-)) shall not exceed 7.09 lbs/hr.
95. Combined emissions of particulate matter from the 1240 Product Loadout (To Truck Loadout) (Emission Point 26 (-)) shall not exceed 12.00 lbs/hr.
96. Combined emissions of particulate matter from the 2040 Product Loadout (To Truck Loadout) (Emission Point 26 (-)) shall not exceed 14.02 lbs/hr.
97. Combined emissions of particulate matter from the 3060 Product Loadout (To Truck Loadout) (Emission Point 26 (-)) shall not exceed 5.52 lbs/hr.
98. Combined emissions of particulate matter from the 4261 Product Loadout (To Truck Loadout) (Emission Point 26 (-)) shall not exceed 14.97 lbs/hr.
99. Combined emissions of particulate matter from the M40 Product Loadout (To Truck Loadout) (Emission Point 26 (-)) shall not exceed 9.74 lbs/hr.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**2. Emission Limitations: (Continued)**

100. Combined emissions of particulate matter from the R6-11 Product Loadout (To Truck Loadout) (Emission Point 26 (-)) shall not exceed 18.44 lbs/hr.
101. Combined emissions of particulate matter from the R6-11 Product Loadout (To Truck Loadout) (Emission Point 26 (-)) shall not exceed 18.44 lbs/hr.
102. Combined emissions of particulate matter from the 1040 Product Loadout (To Railcar Loadout) (Emission Point 26 (-)) shall not exceed 7.09 lbs/hr.
103. Combined emissions of particulate matter from the 1240 Product Loadout (To Railcar Loadout) (Emission Point 26 (-)) shall not exceed 12.00 lbs/hr.
104. Combined emissions of particulate matter from the 2040 Product Loadout (To Railcar Loadout) (Emission Point 26 (-)) shall not exceed 14.02 lbs/hr.
105. Combined emissions of particulate matter from the 3060 Product Loadout (To Railcar Loadout) (Emission Point 26 (-)) shall not exceed 5.52 lbs/hr.
106. Combined emissions of particulate matter from the 4261 Product Loadout (To Railcar Loadout) (Emission Point 26 (-)) shall not exceed 14.97 lbs/hr.
107. Combined emissions of particulate matter from the M40 Product Loadout (To Railcar Loadout) (Emission Point 26 (-)) shall not exceed 9.74 lbs/hr.
108. Combined emissions of particulate matter from the R6-11 Product Loadout (To Railcar Loadout) (Emission Point 26 (-)) shall not exceed 18.44 lbs/hr.
109. Combined emissions of particulate matter from the R6-11 Product Loadout (To Railcar Loadout) (Emission Point 26 (-)) shall not exceed 18.44 lbs/hr.
110. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 26 (44)) shall not exceed 26.41 lbs/hr.
111. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 26 (46)) shall not exceed 30.57 lbs/hr.
112. Combined emissions of particulate matter from the Receiving Hopper (Emission Point 26 (47)) shall not exceed 26.41 lbs/hr.
113. Combined emissions of particulate matter from the Bagger (Emission Point 26 (48)) shall not exceed 26.41 lbs/hr.
114. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 26 (45)) shall not exceed 38.59 lbs/hr.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations: (Continued)**

- 115. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 26 (53)) shall not exceed 38.59 lbs/hr.
- 116. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 26 (54)) shall not exceed 38.59 lbs/hr.
- 117. Combined emissions of particulate matter from the Conveyor and Transfer Points (Emission Point 28 (-)) shall not exceed 38.59 lbs/hr.
- 118. Combined emissions of particulate matter from the Railcar Loadout (Emission Point 28 (-)) shall not exceed 38.59 lbs/hr.
- b. Pursuant to Regulation 401 KAR 59:010, Section 3(1), the opacity of visible emissions from each affected facility shall not equal or exceed twenty percent (20%).

**Compliance Demonstration Method:**

- a. Compliance with the applicable hourly particulate emission limit for each affected facility follows:

Hourly Particulate Emission Rate =

$$\frac{\text{(Monthly Processing Rate) (Emission Factor from AP-42*)}}{\text{Hours of operation per month}} \times (1 - \text{Control Efficiency})$$

- \* If an Emission Factor other than that taken from AP-42 is used, documentation on how that Emission Factor was derived must be submitted to the Division's Central Office for approval.
- b. In determining compliance with the opacity standards as listed above, the owner or operator shall use Method 9 and the procedures as described in 40 CFR 60.11 and 40 CFR 60.675(c).

**3. Testing Requirements:**

See Section C, General Condition G.3.

**4. Monitoring Requirements:**

See Section C, General Condition F.1.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**5. Recordkeeping Requirements:**

See Section C, General Conditions B.1., B.2., and F.1.

**6. Reporting Requirements:**

See Section C, General Conditions C.1., C.2., C.3., F.2., and G.2.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****EXISTING PLANT #12**

- 03 (P01) Fluid Bed Preheater (Primary Fuel: Natural Gas, Secondary Fuel: Fuel Oil)  
(Maximum Rated Capacity- 40 tons/hour)  
(Control: Wet Scrubber – High Efficiency)  
(Date of Construction: April 14, 1988)

**ADDITION TO THE SOURCE**

- 29 (-) Dryer (North American Model 6795-14-54) (Natural Gas Fired)  
(Maximum Rated Capacity- 90 tons/hour)  
(Control: Wet Scrubber – High Efficiency)  
(Date of Construction: September 2, 2004)

**Applicable Regulations:**

State Regulation 401 KAR 60:005, Standards of performance for new stationary sources, which incorporates by reference 40 CFR 60.730 (40 CFR 60, Subpart UUU), applies to each of the affected facilities listed above.

1. **Operating Limitations:**

N/A

2. **Emission Limitations:**

- a. Pursuant to Regulation 40CFR 60.732 (a):

1. Combined emissions of particulate matter from the Fluid Bed Preheater (Emission Point 03 (P01)) and the Dryer (Emission Point 29 (-)) shall not exceed 0.04 grains per dry standard cubic feet, each.

- b. Pursuant to Regulation 40CFR 60.732 (b), the opacity of visible emissions from the fluid bed preheater and the dryer shall not equal or exceed ten percent (10%), each.

**Compliance Demonstration Method:**

- a. Compliance with the applicable hourly particulate emission limit for each affected facility follows:

Hourly Particulate Emission Rate =

(Monthly Processing Rate) (Emission Factor from AP-42\*)

----- X (1- Control Efficiency)  
Hours of operation per month

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **2. Emission Limitations: (Continued)**

#### **Compliance Demonstration Method: (Continued)**

- \* If an Emission Factor other than that taken from AP-42 is used, documentation on how that Emission Factor was derived must be submitted to the Division's Central Office for approval.
- b. In determining compliance with the opacity standards as listed above, the owner or operator shall use Method 9 and the procedures as described in 40 CFR 60.11 and 40 60.675(c).

### **3. Testing Requirements:**

During the initial performance test of a wet scrubber, the owner or operator shall use the monitoring devices to determine the average change in pressure of the gas stream across the scrubber and the average flowrate of the scrubber liquid during each of the particulate matter runs. The arithmetic averages of the three runs shall be used as the baseline average value for the operating parameters.

See Section C, General Condition G.3.

### **4. Monitoring Requirements:**

The owner or operator who uses a wet scrubber to comply with the mass emission standard for any affected facility shall install, calibrate, maintain and operate monitoring devices that continuously measure and record the pressure loss of the gas stream through the scrubber and the scrubbing liquid flow rate to the scrubber. The pressure loss monitoring loss must be certified by the manufacturer to be accurate within 5 percent of water column gauge pressure at the level of operation. The liquid flow rate monitoring device must be certified by the manufacturer to be accurate within 5 percent of design scrubbing liquid flow rate.

See Section C, General Condition F.1.

### **5. Recordkeeping Requirements:**

The owner or operator shall determine and record once each day, from the recordings of the monitoring devices, an arithmetic average over a 2-hour period of both the change in pressure of the gas stream across the scrubber and the flowrate of the scrubbing liquid.

See also 40 CFR 60.735 (a) and (c)(1), (2), and (3)

See Section C, General Conditions B.1., B.2., and F.1.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**6. Reporting Requirements:**

See Section C, General Conditions C.1, C.2, C.3., F.2., and G.2.



## SECTION C - GENERAL CONDITIONS

### A. Administrative Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of Regulation 401 KAR 52:040, Section 3(1)(b) and is grounds for enforcement action including but not limited to the termination, revocation and reissuance, or revision of this permit.
2. This permit shall remain in effect for a fixed term of ten (10) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division. [401 KAR 52:040, Section 15]
3. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit. [Material incorporated by reference by 401 KAR 52:040, Section 1a, 11]
4. Pursuant to materials incorporated by reference by 401 KAR 52:040, the permit contained herein may be revised, revoked, reopened, reissued, or terminated for cause. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance shall not stay any permit condition. [Material incorporated by reference by 401 KAR 52:040, Section 1a, 4 and 5]
5. The permit does not convey property rights or exclusive privileges. [Material incorporated by reference by 401 KAR 52:040, Section 1a, 8].
6. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance. [401 KAR 52:040 Section 11(3)]
7. The permit shall be subject to suspension at any time the permittee fails to pay all fees within 90 days after notification as specified in State Regulation 401 KAR 50:038, Air emissions fee. Source shall submit an annual emissions certification pursuant to 401 KAR 52:040, Section 20.
8. All previously issued permits to this source at this location are hereby null and void.

**SECTION C - GENERAL CONDITIONS (CONTINUED)****B. Recordkeeping Requirements**

1. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of at least five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality. [Material incorporated by reference by 401 KAR 52:040, Section 1b, IV. 2) and 401 KAR 52:040 Section 3(1)(f)]
2. The permittee shall perform compliance certification and recordkeeping sufficient to assure compliance with the terms and conditions of the permit. Documents, including reports, shall be certified by a responsible official pursuant to State Regulation 401 KAR 52:040, Section 21.

**C. Reporting Requirements**

1.
  - a. In accordance with the provisions of Regulation 401 KAR 50:055, Section 1 the owner or operator shall notify the Division for Air Quality's Owensboro Regional Office concerning startups, shutdowns, or malfunctions as follows:
    1. When emissions during any planned shutdowns and ensuing startups will exceed the standards notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
    2. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards notification shall be made as promptly as possible by telephone (or other electronic media) and shall cause written notice upon request.
  - b. In accordance with the provisions of Material incorporated by reference by 401 KAR 52:040, Section 1b, V. 3), the owner or operator shall promptly report deviations from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Reporting Requirement condition 1 a) above), the probable cause of the deviation, and corrective or preventive measures taken; to the Division for Air Quality's Owensboro Regional Office.
2. The permittee shall furnish information requested by the cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or compliance with the permit. [Material incorporated by reference by 401 KAR 52:040, Section 1a, 6].
3. Summary reports of monitoring required by this permit shall be submitted to the Division's Owensboro Regional Office at least every six (6) months during the life of this permit. The summary reports are due January 30th and July 30th of each year. All reports shall be certified by a responsible official pursuant to 401 KAR 52:040, Section 21. All deviations from permit requirements shall be clearly identified in the reports.

## **SECTION C - GENERAL CONDITIONS (CONTINUED)**

### **D. Inspections**

1. In accordance with the requirements of 401 KAR 52:040, Section 3(1)(f) the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
  - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
  - b. To access and copy any records required by the permit;
  - c. Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit;
  - d. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.

Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.

### **E. Emergencies/Enforcement Provisions**

1. The permittee shall not use as defense in an enforcement action, the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Material incorporated by reference by 401 KAR 52:040, Section 1a, 3].
2. An emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
  - a. An emergency occurred and the permittee can identify the cause of the emergency;
  - b. The permitted facility was at the time being properly operated;
  - c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
  - d. The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two working days after the time when emission limitations were exceeded due to the emergency and included a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
3. Emergency provisions listed in General Condition E.2 are in addition to any emergency or upset provision contained in an applicable requirement.
4. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof.

**SECTION C - GENERAL CONDITIONS (CONTINUED)****F. Compliance**

1. Periodic testing or instrumental or non-instrumental monitoring, which may consist of record keeping, shall be performed to the extent necessary to yield reliable data for purposes of demonstration of continuing compliance with the conditions of this permit. For the purpose of demonstration of continuing compliance, the following guidelines shall be followed:
  - a. Pursuant to State Regulation 401 KAR 50:055, General compliance requirements, Section 2(5), all air pollution control equipment and all pollution control measures proposed by the application in response to which this permit is issued shall be in place, properly maintained, and in operation at any time an affected facility for which the equipment and measures are designed is operated, except as provided by State Regulation 401 KAR 50:055, Section 1.
  - b. All the air pollution control systems shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers. A log shall be kept of all routine and non routine maintenance performed on each control device. Daily observations are required during daylight hours of all operations, control equipment and any visible emissions to determine whether conditions appear to be normal or abnormal. If the operations, controls and/or emissions appear to be abnormal, the permittee must then comply with the requirements of Section C – General Conditions, paragraph C.1.b., of this permit.
  - c. A log of the monthly production rates shall be kept available at the facility. Compliance with the emission limits may be demonstrated by computer program (spread sheets), calculations or performance tests as may be specified by the Division.
2. Pursuant to 401 KAR 52:040, Section 19, the permittee shall annually complete and return a Compliance Certification Form (DEP 7007CC) to the Division's Owensboro Regional Office in accordance with the following requirements:
  - a. Identification of the term or condition;
  - b. Compliance status of each term or condition of the permit;
  - c. Whether compliance was continuous or intermittent;
  - d. The method used for determining the compliance status for the source, currently and over the reporting period; and
  - e. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality	Division for Air Quality
Owensboro Regional Office	Office Central Files
3032 Alvey Park Drive W., Suite 700	803 Schenkel Lane
Owensboro, KY 42303-2191	Frankfort, KY 40601
3. Permit Shield - A permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with all applicable requirements for:
  - a. Applicable requirements included and specifically identified in the permit; or
  - b. Non-applicable requirements expressly identified in this permit.

**SECTION C - GENERAL CONDITIONS (CONTINUED)****G. New Construction Requirements:**

1. Pursuant to 401 KAR 52:040, Section 12(3), unless construction is commenced on or before 18 months after the date of issue of this permit, or if construction is commenced and then stopped for any consecutive period of 18 months or more, or is not completed within a reasonable timeframe then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon a written request, the cabinet may extend these time periods if the source shows good cause.
2. Pursuant to 401 KAR 52:040, Section 12(4)(a) and 401 KAR 59:005, General provisions, Section 3(1), within 30 days following construction commencement, within 15 days following start-up and attainment of maximum production rate, or within 15 days following the issuance date of this permit, whichever is later, the owner and/or operator of the affected facilities specified on this permit shall furnish to the Division's Owensboro Regional Office, with a copy to the Division's Frankfort Central Office, the following:
  - a. Date when construction commenced, (See General Condition G.1).
  - b. Start-up date of each of the affected facilities listed on this permit.
  - c. Date when maximum production rate was achieved, (See General Condition G.3.b).
  - d. Summary reports, as referenced in Section C, C.3., of any monitoring required by this permit, for emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation.
  - e. The annual compliance certification, as referenced in Section C, F.2., for an emissions unit that was still under construction or which had not commenced operation at the end of the 12-month period covered by the compliance certification, shall indicate that the unit was under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.
3.
  - a. Pursuant to 401 KAR 59:005, General provisions, Section 2(1), this permit shall allow time for the initial start-up, operation and compliance demonstration of the affected facilities listed herein. However, within 60 days after achieving the maximum production rate at which the affected facilities will be operated, but not later than 180 days after initial start-up of such facilities, the owner or operator shall demonstrate compliance to a duly authorized representative of the Division.
  - b. Pursuant to 401 KAR 59:005, General provisions, Section 3(1)(b), unless notification and justification to the contrary are received by this Division, the date of achieving the maximum production rate at which the affected facilities will be operated shall be deemed to be 30 days after initial start-up.
  - c. Pursuant to Section VII 2.(1) of the policy manual of the Division for Air Quality as referenced by Regulation 401 KAR 50:016, Section 1.(1), at least 30 days prior to the date of the required performance test(s), the permittee shall complete and return a Compliance Test Protocol (Form DEP 6027) to the Division's Frankfort office. The protocol form shall be utilized by the Division to determine if a pretest meeting is required. Pursuant to 401 KAR 50:045, Section 5, the Division shall be notified of the actual test date at least 10 days prior to the test(s).

## **SECTION C - GENERAL CONDITIONS (CONTINUED)**

### **G. New Construction Requirements: (Continued)**

3. d. Pursuant to Section VII.3 of the policy manual of the Division for Air Quality as referenced by Regulation 401 KAR 50:016, Section 1(1), results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days after the completion of the fieldwork.
4. Operation of the affected facilities authorized by this permit shall not commence until compliance with applicable standards specified herein has been demonstrated in accordance with the requirements of 401 KAR 52:040, Section 12(4)(b).

**SECTION D - INSIGNIFICANT ACTIVITIES**

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:040, Section 6. While these activities are designated as insignificant the permittee shall comply with the applicable regulation and any level of periodic monitoring specified below.

DescriptionGenerally Applicable Regulation

1. # 2 Diesel Tank

40 CFR Kb

2. # 2 Diesel Tank

40 CFR Kb